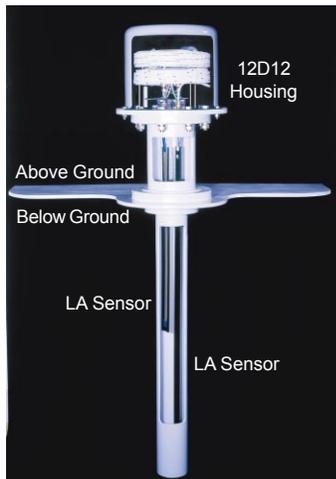


## Consilium US Solves Sewer Dilemma

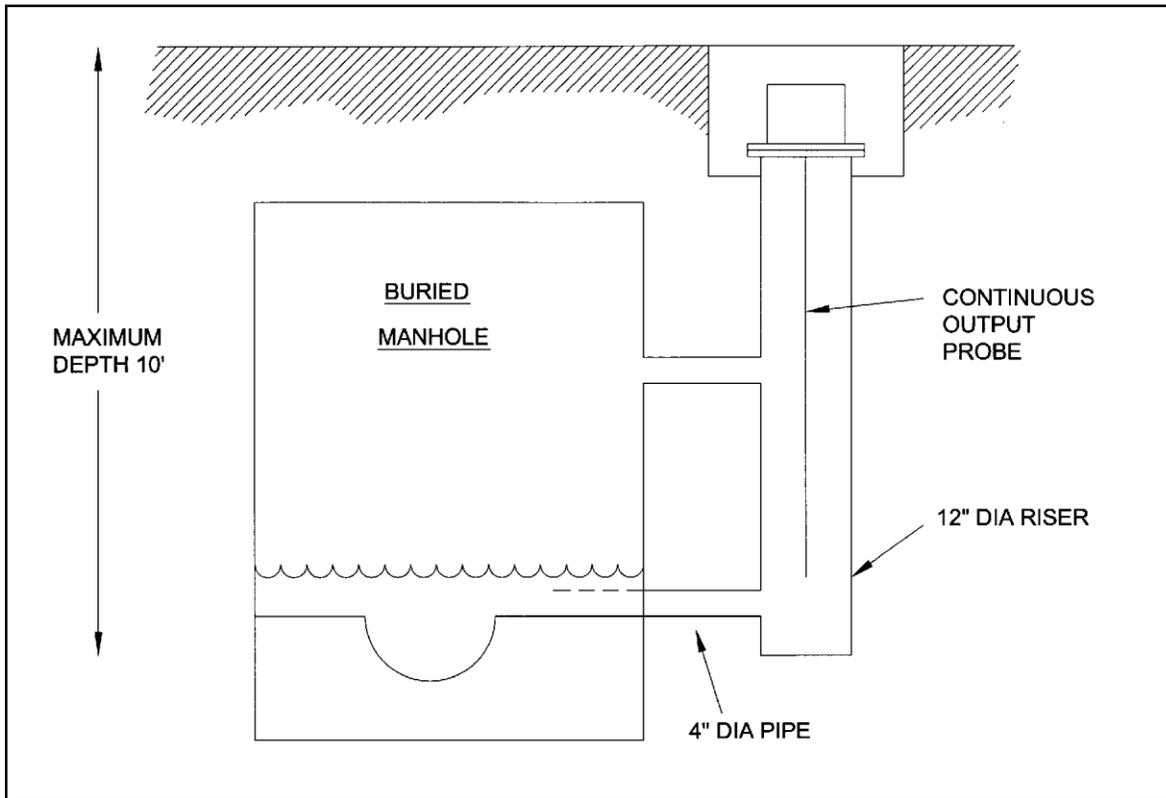
Tasked with identifying a reliable level gauging solution for a major U.S. West Coast sewer job, the project's design engineer turned to Consilium US, Inc. Having utilized Consilium US's Metritape™ sensors successfully in other level gauging applications, the design engineer knew that resistance-tape technology was the optimal level gauging solution for the sewer project. In addition to offering easy tank top installation and virtually no maintenance, Metritape sensors provide reliability, accuracy and stability.

Metritape is essentially an "electric tape measure" that converts distance along its length into resistance measured in ohms. Though available in different models, the LA Type was the best suited for the sewer project. Available in overall lengths of 3 to 100 feet, the LA sensor has a high-resolution resistance helix and gold-on-gold electric contact stability. The sensor jacket is multi-layer, principally Mylar polyester and protected on three sides with an extruded glass-filled polypropylene bumper channel. The filter assembly protects the sensor from moisture and contaminants and provides pressure equalization.



Given the harsh conditions of sewers, the design engineer also needed a durable housing that would provide weather-proof protection of two LA sensors. Although a single Metritape sensor offers high reliability, the design engineer wanted the added insurance of a second sensor due to the number of locations the sewer system would be servicing. Consilium US offered both sensor protection and dual mounting with the 12D12 Deck Housing, which is traditionally used in environmentally demanding marine applications. The 12D12 Deck Housing is airtight and will prevent rain or other contaminants that may seep in from the street from damaging the sensor wiring.

With the wiring well protected in the 12D12 Deck Housing, two Metritape LA Sensors run through a vented stillpipe that is adjacent to the sewer system (see figure on page 2). Two pipes from the sewer system connect to the stillpipe. If the sewer clogs or overflows, the sensors will indicate that there are problems. Two transmitters will then communicate to a remote location that there are issues, so that they can be promptly rectified.



With its product quality and versatility, Consilium US has provided another successful level gauging solution to a demanding product application. For information on how Consilium US can solve your level gauging challenges, e-mail [info@consiliumus.com](mailto:info@consiliumus.com).